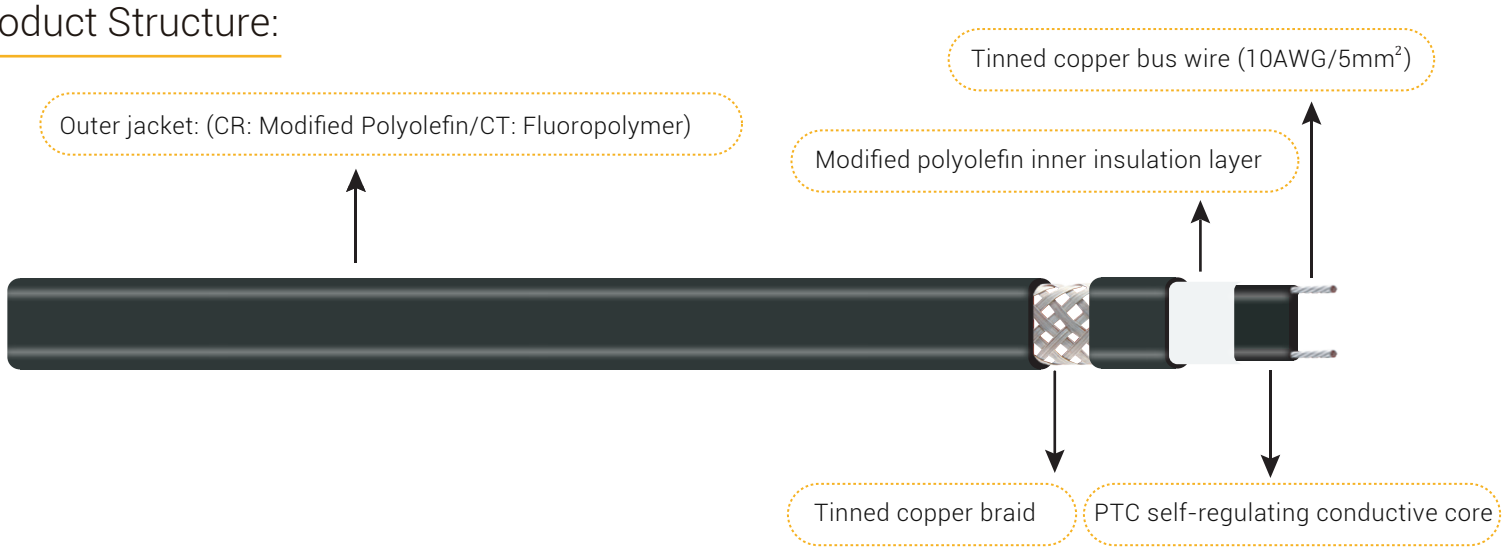
LHTR low temperature self-regulating heating cable

Overview:

Jiahong LHTR low temperature self-regulating heating cable can be used for long pipe antifreeze in residential and commercial applications, and temperature maintaince under maiximum exposure temperature. No matter whether the pipeline is overhead or buried installation, LHTR heating cable can maintain the temperature and phase structure of the medium in the pipeline or vessel; Generally, LHTR heating cable is mostly used to freeze protection and snow melting protection on water pipes, Fire sprinkler pipe, grease waste pipe and similar pipes.

Product Structure:



The extruded core tape, which made by parallel tinner copper bus wire and PTC semiconductor polymer heating material, and inner insulation layer of modified polyolefin are added to tinned copper braid and the outer jacket form a complete structure of LHTR heating cable, in which the outer jacket can be made of modified polyolefin material (CR) or fluoropolymer material (CT) according to different application or area.

Product Feature:

- LHTR heating cable is certified by CE (European Union) and EAC (Russian), which can be used in the certified area.
- According to the characteristics of automatic adjustment of power output based on ambient temperature, it can avoid overheating or burning on heating cable even in the case of overlapping installation; Simultaneously this feature can increase the efficiency of the heat tracing system and reduce energy consumption.
- It is allowed to cut arbitrarily within the interval specified by the maximum circuit length and connect with compliance accessories.
- It has a complete series of accessory, including standard power box, splice/tee connection box and end seal box etc, which can ensure the long service life of the product.
- The maximum length will be up to 342m (1125ft) compared with other type of self-regulating cable.

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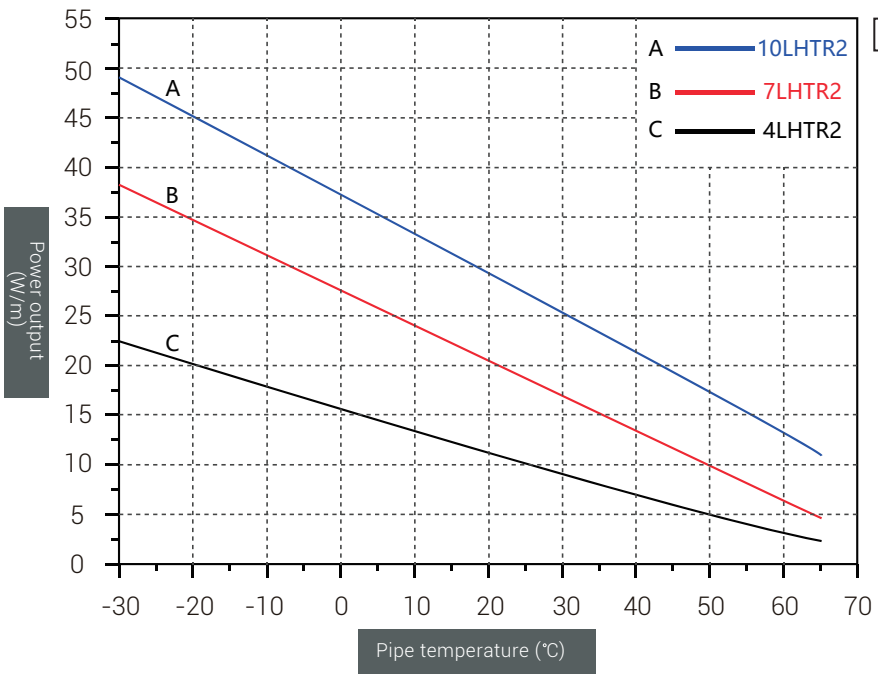
Technical Specification:

Nominated Voltage:	110-120V(LHTR1) / 220-240V(LHTR2)
Maximum maintaince temperature:	+65℃ (150℉)
Maximum intermittent exposure temperature:	+85℃ (185℉)
Temperature classification:	T6
IP level:	IP66/67
Minimum installation temperature:	-60℃ (-76℉)
Minimum bending radius:	40mm
Nominated power output @10℉ :	4W/ft, 7W/ft, 10W/ft,
Dimension:	CR: 15.46mm (W) ×8.16mm (T) CT: 14.86mm (W) ×7.56mm (T)
Approvals mark:	CE EAC

Power output curve:



□ LHTR □ — □

Outer jacket:
CT- Tinned copper braid + Fluoropolymer
CR- Tinned copper braid + Modified Polyolefin

Nominated Voltage:
1=110-120VAC
2=220-240VAC

Type of self-regulating heating cable

Nominated power output @10℃
4=4W/ft 7=7W/ft
10=10W/ft

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120Vac Service Voltage:

CB size(A)	Start-up temperature ℃ (℉)	Max Circuit Length Vs Breaker Size (ft)		
		4LHTR2	7LHTR2	10LHTR2
16	10 (50)	362	197	145
	0 (32)	338	183	139
	-10 (14)	313	170	127
	-20 (-4)	293	159	117
	-40 (-40)	259	141	102
20	10 (50)	453	246	182
	0 (32)	422	228	174
	-10 (14)	391	212	159
	-20 (-4)	367	199	146
	-40 (-40)	324	176	127
25	10 (50)	539	308	227
	0 (32)	528	285	217
	-10 (14)	489	266	199
	-20 (-4)	459	248	183
	-40 (-40)	405	220	159
32	10 (50)	539	394	291
	0 (32)	539	365	278
	-10 (14)	539	340	254
	-20 (-4)	539	318	234
	-40 (-40)	519	282	204
40	10 (50)	539	394	325
	0 (32)	539	394	325
	-10 (14)	539	394	318
	-20 (-4)	539	394	293
	-40 (-40)	539	352	254

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240Vac Service Voltage:

CB size(A)	Start-up temperature ℃ (℉)	Max Circuit Length Vs Breaker Size (ft)		
		4LHTR2	7LHTR2	10LHTR2
16	10 (50)	725	394	291
	0 (32)	675	365	278
	-10 (14)	626	340	254
	-20 (-4)	587	318	234
	-40 (-40)	519	282	204
20	10 (50)	906	493	363
	0 (32)	844	456	347
	-10 (14)	782	425	318
	-20 (-4)	734	398	293
	-40 (-40)	649	352	254
25	10 (50)	1078	616	454
	0 (32)	1055	571	434
	-10 (14)	978	531	397
	-20 (-4)	917	497	366
	-40 (-40)	811	440	318
32	10 (50)	1078	787	581
	0 (32)	1078	730	555
	-10 (14)	1078	680	508
	-20 (-4)	1078	636	469
	-40 (-40)	1078	563	407
40	10 (50)	1078	787	650
	0 (32)	1078	787	650
	-10 (14)	1078	787	636
	-20 (-4)	1078	787	586
	-40 (-40)	1078	704	509

Description:

1. The maximum circuit length shown is in accordance with IEC 60898, with Type C circuit breakers as standard, at reference start-up temperature and 10 ℃ Experimental data obtained from instantaneous trip current characteristics under maintenance temperature conditions. For the maximum loop length corresponding to other trip current characteristics or other types of circuit breakers, please contact the technical representative of Jiahong Company.

2. Although the heat tracing system is generally used to maintain the medium in the pipe or vessel at the required temperature level, the self-regulating heat tracing cable may be at a lower temperature level when it is energized. For design data when the starting temperature is lower than the above temperature, please contact the technical representative of Jiahong Company.

3. Maximum loop length refers to the continuous length of the heating cable, not the sum of the lengths of multiple sections. Relating to current load for each section, please contact the technical representative of Jiahong Company.

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